

Special Issue

Plant Taxonomy, Phylogeny, and Evolution

Message from the Guest Editor

This Special Issue compiles research on plant classification, phylogeny, and evolution, spanning the following areas: (1) Taxonomic studies of plants: This encompasses determining the systematic position of species, conducting taxonomic revisions, or publishing new species through rigorous scientific investigations. It also involves comprehensive statistical comparisons of morphology and molecular phylogenetic analyses. (2) Plant phylogenetic analysis: This involves gathering morphological data and conducting phylogenetic reconstructions at various taxonomic levels (e.g., family or genus) using diverse molecular data sources (e.g., the transcriptome or resequencing). The aim is to elucidate the phylogenetic relationships among species as well as analyze the origins and evolution of species within different clades. (3) Evolutionary biology of plants: This field combines morphological data with a range of molecular tools to explore the mechanisms underlying species formation and evolution. It seeks to detect evolutionary events, such as hybridization and ancestral lineage divergence, and analyze potential factors influencing species evolution.

Guest Editor

Dr. Dengfeng Xie

Key Laboratory of Bio-Resources and Eco-Environment of Ministry of Education, College of Life Sciences, Sichuan University, Chengdu 610065, China

Deadline for manuscript submissions

closed (30 June 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/208352

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)